Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the application.

Listing of Claims

Claim 1. (Currently amended) [[:]] Process A process for the automatic control of the automatically controlling a thickness of an extruded films film, that comprises the following features comprising:

- [[-]] Measurement of the measuring thickness profile values of the extruded film just extruded (8) with the help of a thickness-measuring probe (12) that is moved along the a surface of the film substantially perpendicular (x) to the a conveying direction (z) of the extruded film, (8). The the thickness-measuring probe records recording for each measuring cycle (MZ) a thickness profile (P) of the film (8) at least across parts of the an expansion of the film (8) perpendicular (x) to its the conveying direction (z)[[,]];
- [[-]] Transmitting transmitting the measured values to a control unit (14, 15, 17)[[,]];
- [[-]] Storage of storing the transmitted measured values underlying the thickness profiles in a storage unit (14)[[,]];
- [[-]] Provision of providing statistical values of the film thickness (5) using a computer (14), where the computer (14) takes by taking into account the measured values or information

derived therefrom from the measured values using a definite number of measuring cycles (MZ)[[,]];

- [[-]] Determination of the determining deviations in the statistical values of the film thickness (5) from a target value[[,]]; and
- [[-]] Generating generating control commands to a device for controlling the film thickness, (5)

characterized in

- [[-]] <u>such</u> that during a predetermined time-frame at the <u>a</u> start of the extrusion process, measured values or information derived therefrom using or for a greater number of measuring eyeles from the measured values is made accessible to the computer (14) for a greater number of measuring cycles than those is recorded by the thickness-measuring probe (12) in a time-frame of similar length similar to the predetermined time-frame during the <u>a</u> normal operation, and that
- [[-]] that the computer (14) takes into account these the measured values while providing the statistical values,
- [[-]] wherein at least a part of these the measured values originate originating from the storage unit (14),[[-]] that which makes accessible the measured values or the information derived therefrom from the measured values to the computer (14),
- [[-]] wherein these the measured values or the information derived therefrom originate from the measured values originating only from measuring cycles that were recorded in another

extrusion process in which the deviations in the film thickness from the target value lay within an acceptable tolerance range.

Claim 2. (Currently amended) [[:]] Process The process pursuant to claim 1, characterized in that [[-]] wherein the thickness-measuring probe (12) is moved during a the predetermined time-frame at the start of the extrusion process more quickly along the surface of the extruded film (8) than in the normal operation, [[-]] and in doing so determines for each time unit the measured values from a larger number of measuring cycles than the a number of measuring cycles used in the normal operation, [[-]] and makes these the measured values accessible to the computer (14).

Claim 3. (Canceled)[[:]]

Claim 4. (Currently amended) [[:]] Process The process pursuant to claim 1, characterized in that various wherein weighting factors are assigned to the measured values or the information derived therefrom from the measured values using different measuring cycles with which the a contribution of the measured values or of the information derived therefrom from the measured values to the statistical values is defined.

Claim 5. (Currently amended)[[:]] Process The process pursuant to claim 4, characterized in that these wherein the weighting factors are changed at the start of the extrusion process.

Claim 6. (Currently amended) [[:]] Process The process pursuant to claim 1, characterized in that wherein the measured values or the information derived therefrom from the measured values using other extrusion processes that are stored in the storage device (14) unit are assigned to the process parameters that prevailed when they the measured values were recorded.

Claim 7 (Withdrawn) Device for the automatic control of the thickness of the extruded film (8) having the following features:

- a thickness-measuring probe (12) for measuring the thickness profile of the film just extruded (8) that is moved along the surface of the film (8) substantially perpendicular (x) to the conveying direction (z) of the extruded film (8). The thickness measuring probe (12) records for each measuring cycle (MZ) a thickness profile (P) of the film (8) at least across parts of the expansion of the film (8) perpendicular (x) to its conveying direction (z),
- transmitting the measured values to a control unit (14, 15, 17),

- a storage unit (14) for recording the measured values and the information derived therefrom,
- a computer (14) for providing statistical values of the film thickness (5) taking into account measured values or information derived therefrom using a definite number of measuring cycles (MZ)
- wherein even the deviations in the statistical values of the film thickness (5) from a target value can be determined using the computer (14),
- a device (17) for generating control commands to a device for controlling the film thickness (5)

characterized in

- a computer (14) using which it is possible to take into account, during a predetermined time-frame at the start of the extrusion process, measured values or information derived therefrom using or for a greater number of measuring cycles than those recorded by the thickness-measuring probe in a time-frame of similar length during the normal operation,
- a storage unit (14) in which it is possible to store measured values or information derived therefrom using measuring cycles that were recorded in another extrusion process
- communication means between the storage unit (14) and the computer (14) that provides to the computer (14) during a

predetermined time-frame at the start of the extrusion process at least a part (14) of the measured values or information derived therefrom which the computer (14) then takes into account for this time-frame.

Claim 8. (Canceled)[[:]]

Claim 9. (Currently amended) [[:]] Process The process pursuant to claim 2, characterized in that various wherein weighting factors are assigned to the measured values or the information derived therefrom from the measured values using different measuring cycles with which the a contribution of the measured values or of the information derived therefrom from the measured values to the statistical values is defined.

Claim 10. (Canceled)[[:]]

Claim 11. (Currently amended) [[:]] Process The process pursuant to claim 2, characterized in that wherein the measured values or the information derived therefrom from the measured values using other extrusion processes that are stored in the storage device (14) unit are assigned to the process parameters that prevailed when they the measured values were recorded.

Claim 12. (Canceled) [[:]]

Claim 13. (Currently amended) [[:]] Process The process pursuant to claim 4, characterized in that wherein the measured values or the information derived therefrom from the measured values using other extrusion processes that are stored in the storage device (14) unit are assigned to the process parameters that prevailed when they the measured values were recorded.

Claim 14. (Currently amended) [[:]] Process The process pursuant to claim 5, characterized in that wherein the measured values or the information derived therefrom from the measured values using other extrusion processes that are stored in the storage device (14) are assigned to the process parameters that prevailed when they the measured values were recorded.

Amendments to the Abstract

Replace the abstract with the following replacement abstract:

The present invention relates to a A process for the automatic control of the thickness of an extruded film (8). The purpose of the invention is to lower the lowers deviations in the film thickness of the film more quickly after the start of the extrusion process.

The process involves the measurement of includes measuring the thickness profile of the extruded film just extruded (8) by means of with a thickness-measuring probe (12). The thickness-measuring probe (12) is moved moves along the surface of the film substantially perpendicular (x) to the film conveying direction (z) of the extruded film (8). The thickness-measuring probe (12) records for each measuring cycle (MZ) a thickness profile (P) of the film (8) at least over parts of the expansion of the film (8) perpendicular (x) to its the conveying direction (z).

The process pursuant to the present invention is characterized by the fact that during <u>During</u> a predetermined time-frame at the start of the extrusion process, measured values or information derived therefrom using or for a greater number of measuring cycles is made accessible to the <u>a</u> computer (14) for a greater number of measuring cycles than those <u>is</u> recorded by the thickness-measuring probe (12)

in a time-frame of similar length during the normal operation. and that the The computer (14) takes into account these measured values while providing the statistical values.

(Figure 1)

{see source for figures}

For the examiner's convenience, a clean text version of the replacement abstract (150 words) is presented below:

A process for the automatic control of the thickness of an extruded film lowers deviations in the film thickness more quickly after the start of the process. The process includes measuring the thickness profile of the extruded film with a thickness-measuring probe. The probe moves along the surface of the film substantially perpendicular (x) to the film conveying direction (z). The probe records for each measuring cycle (MZ) a thickness profile (P) of the film at least over parts of the expansion of the film perpendicular (x) to the conveying direction During a predetermined time-frame at the start of the extrusion process, measured values or information derived therefrom is made accessible to a computer for a greater number of measuring cycles than is recorded by the probe in a time-frame of similar length during normal operation. The computer takes into account these measured values while providing the statistical values.